WEEK 5 QUARTER 4 MATH 6

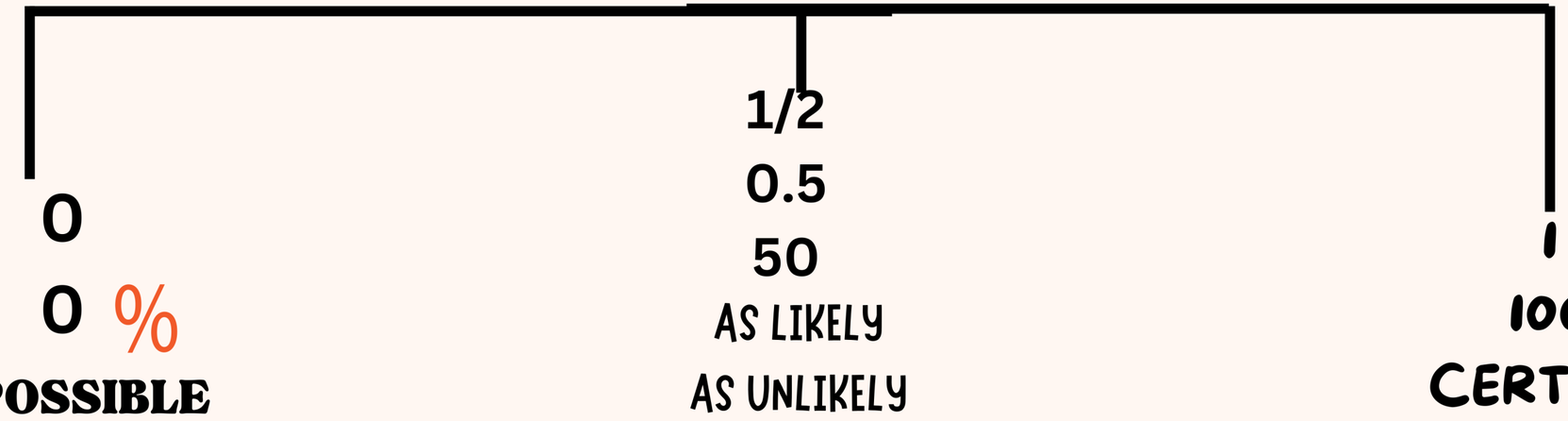
LESSON 5

PROBABILITY

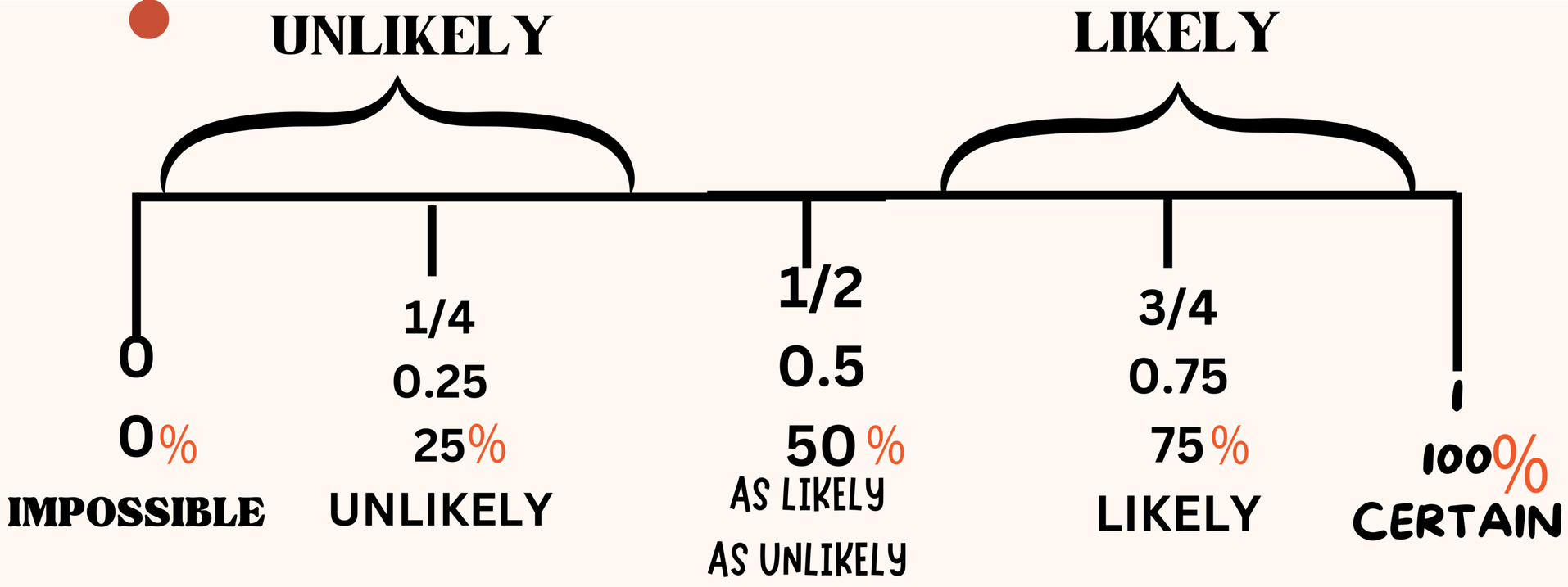
MELC-BASED WEEK 5

WHAT IS PROBABILITY?

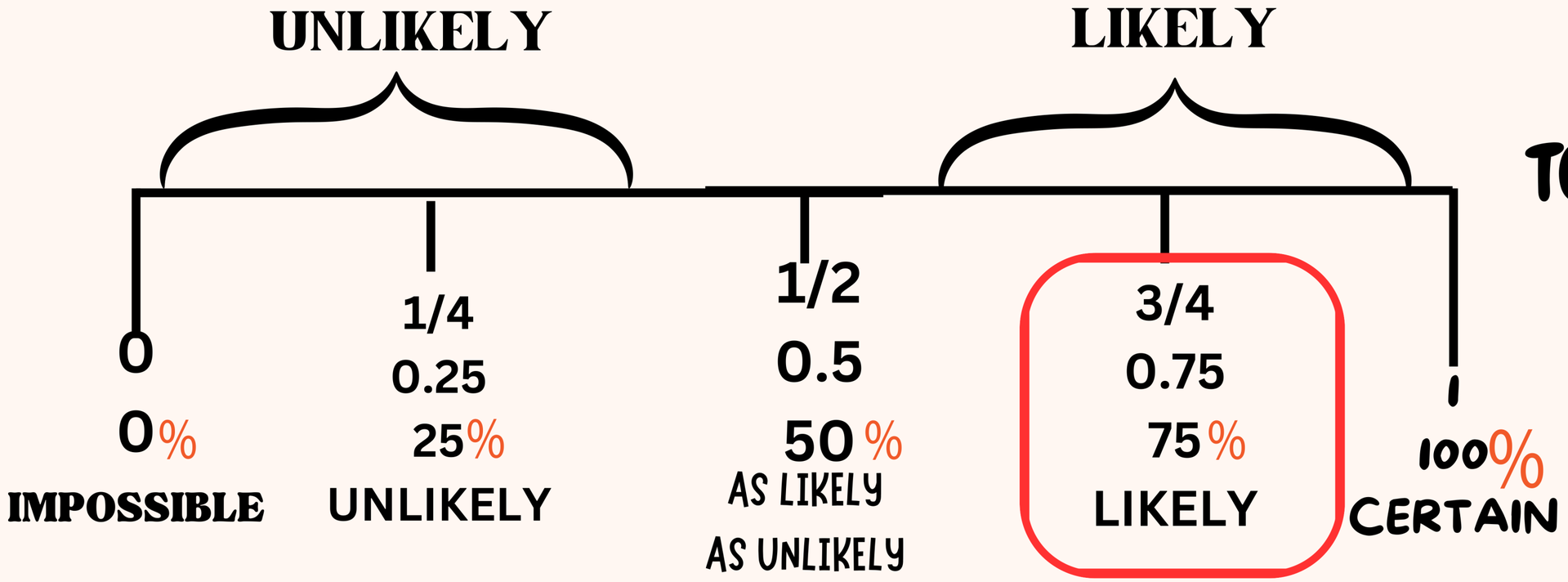
PROBABILITY IS USED TO DESCRIBE HOW LIKELY OR UNLIKELY IT IS THAT SOMETING WILL HAPPEN.



WHAT IS PROBABILITY?



THE WEATHER FORECASTER SAYS THAT THE PROBABILITY THAT IT WILL RAIN TODAY IS 75%. DOES IT MEAN THAT THERES A GREAT CHANCE THAT IT WILL RAIN TODAY?



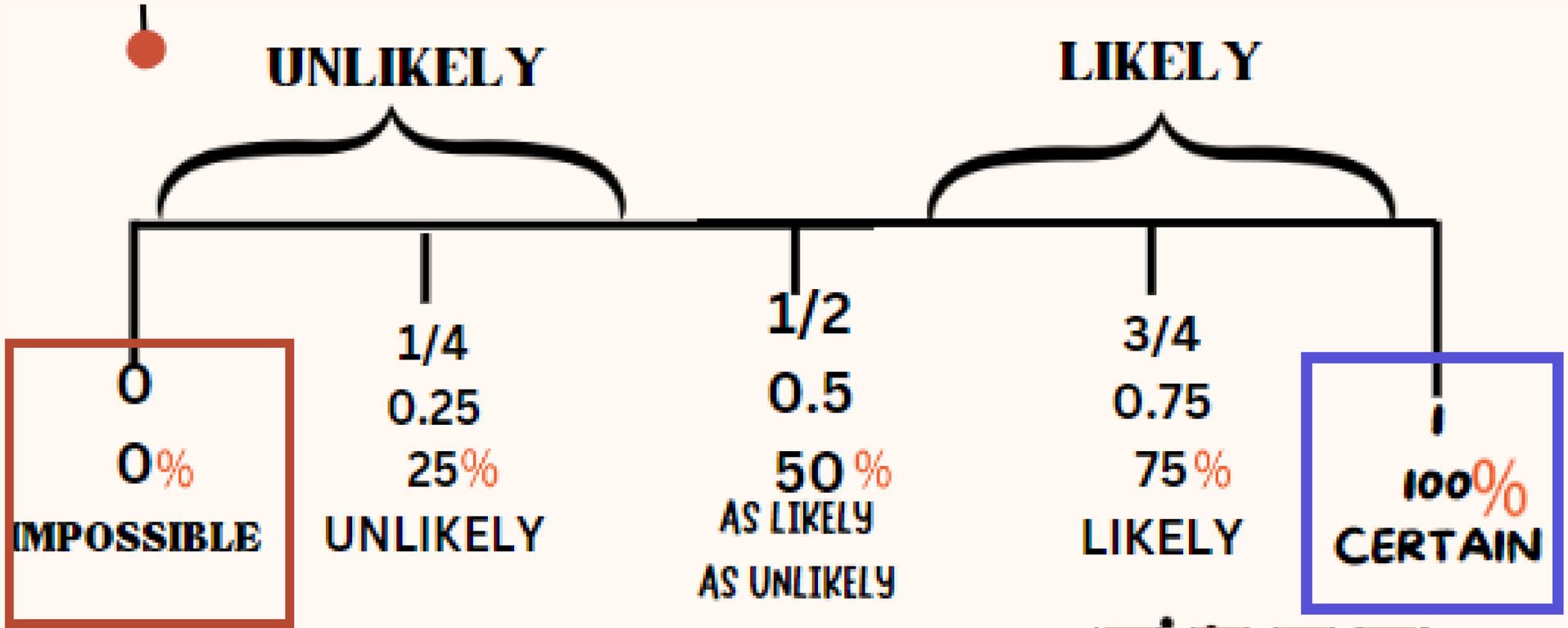
THE EVENT TODAY IS LIKELY TO HAPPEN.

IMPOSSIBE

1; IT WILL SNOW IN THE PHILIPPINES TOMORROW.

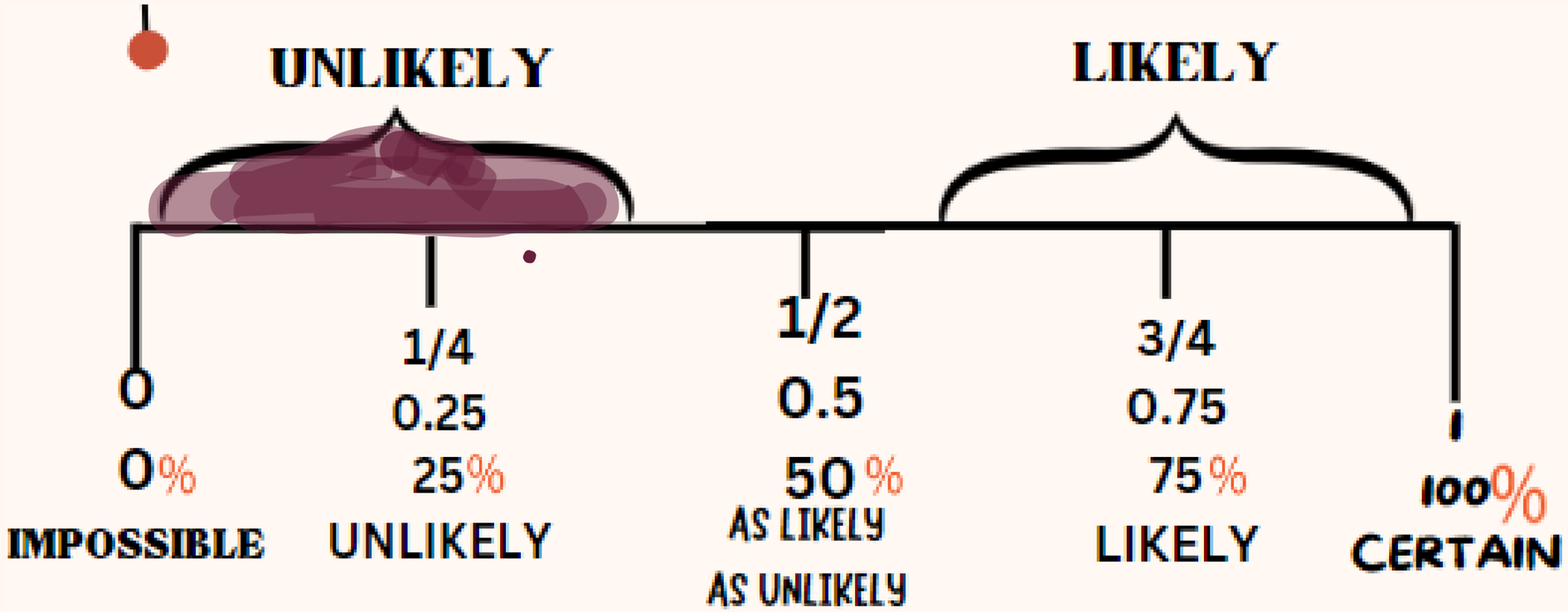
CERTAIN

2; THE SUN WILL RISE TOMMOROW.



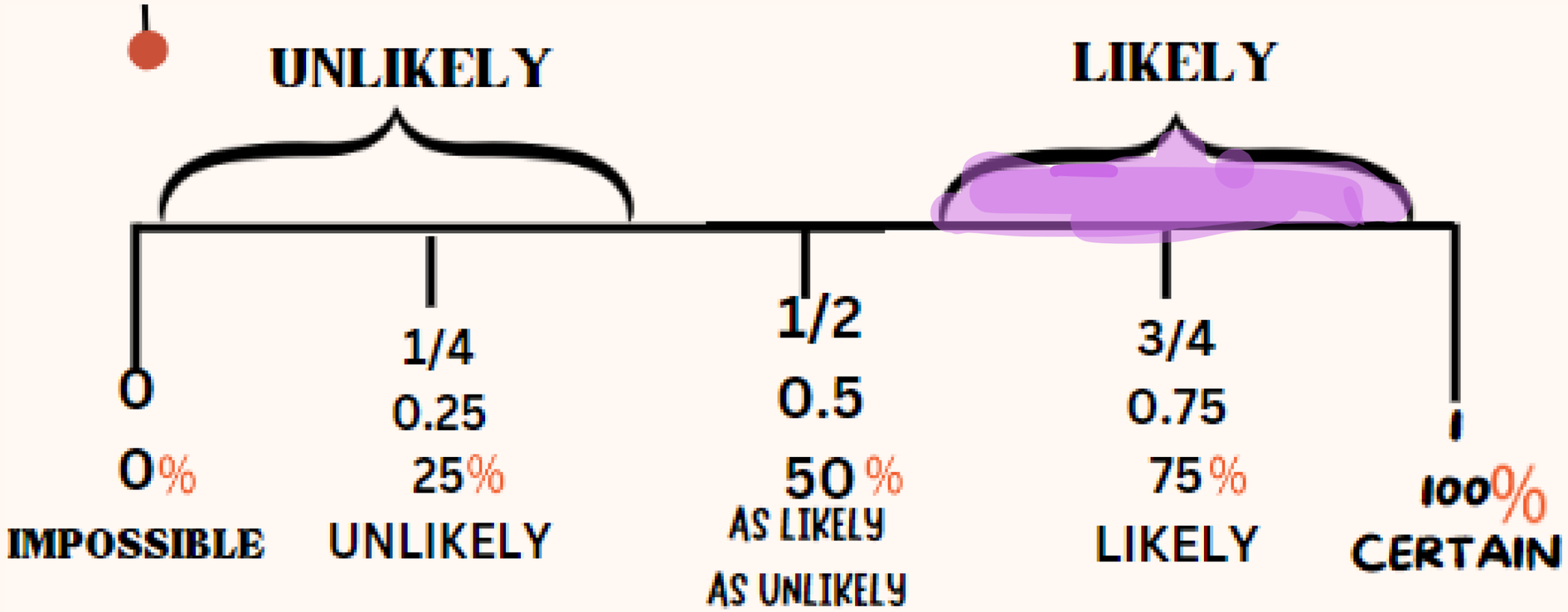
UNLIKELY

3; THE LIKEHOOD THAT 2 PEOPLE IN EVERY GROUP OF 15 WILL HAVE THE SAME BIRTHDAY IS 8



LIKELY

4; SPORTS ANALYS SAYS THAT MANNY PACQUIO HAS 85 CHANCE OF WINNING.



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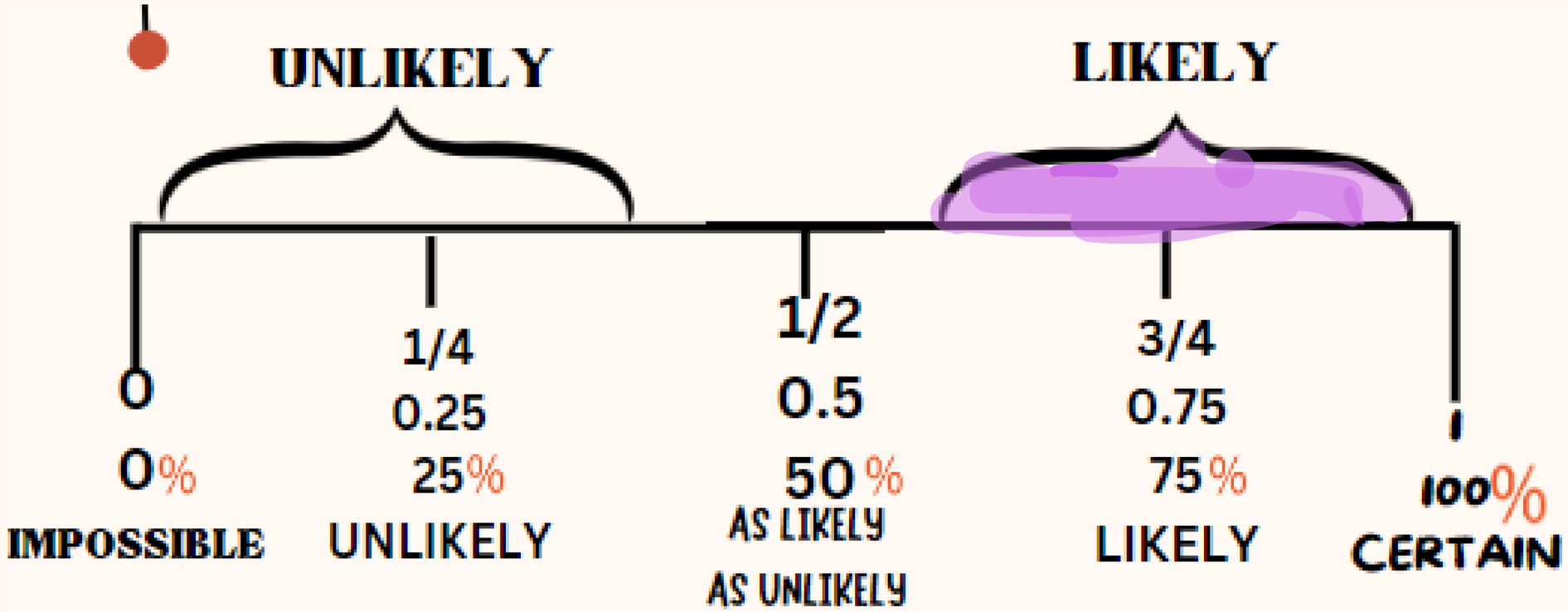

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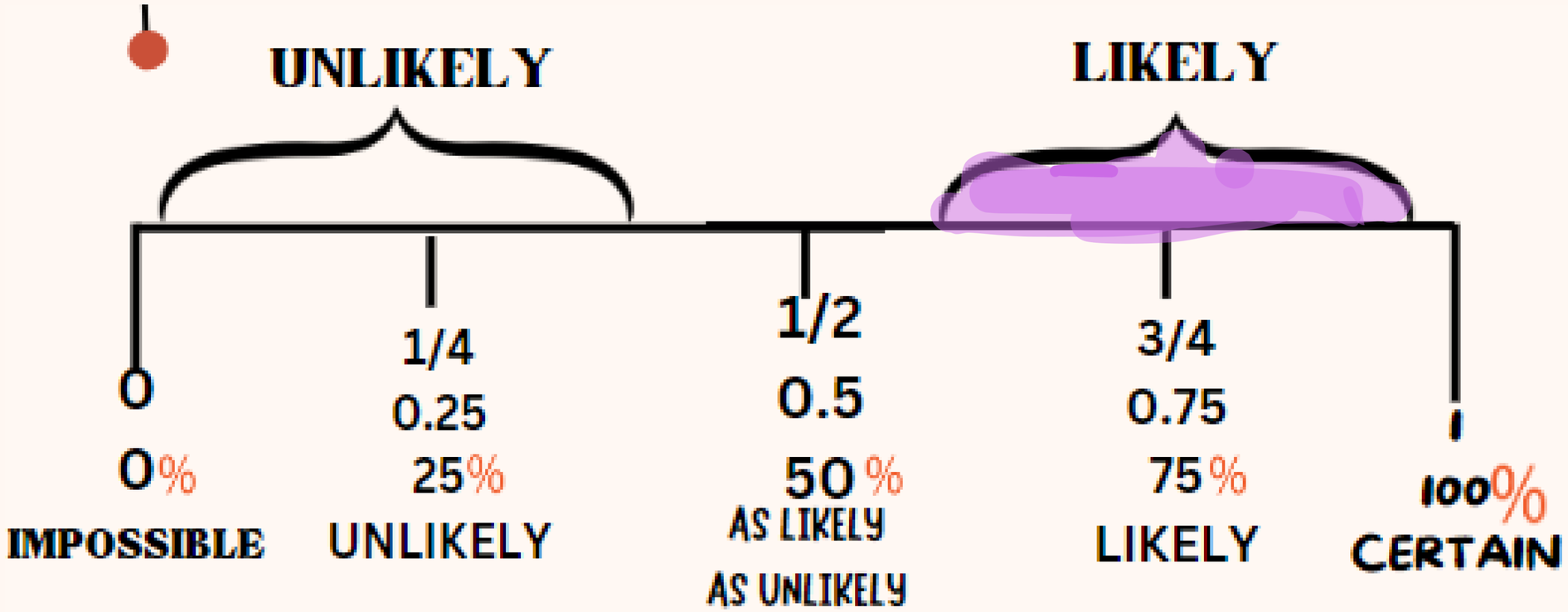


SAMPLE SPACE

1 PINK, 2 RED, 2 BLUE

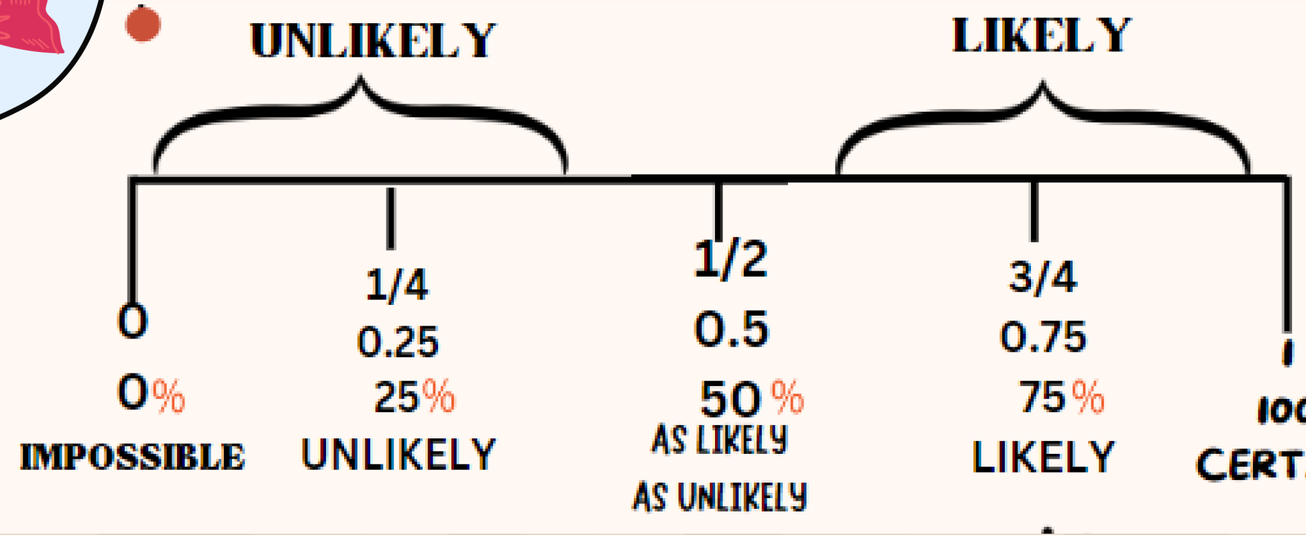
WHAT IS THE PROBABILITY OF PICKING PINK CANDY IN THE JAR?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

$$= \frac{1}{5}$$

OR 0.20 OR 20 %

IT IS UNLIKELY TO PICK PINK CANDY IN THE JAR.



WHAT IS THE PROBABILITY OF PICKI NG BLUE CANDY IN THE JAR?

SAMPLE SPACE

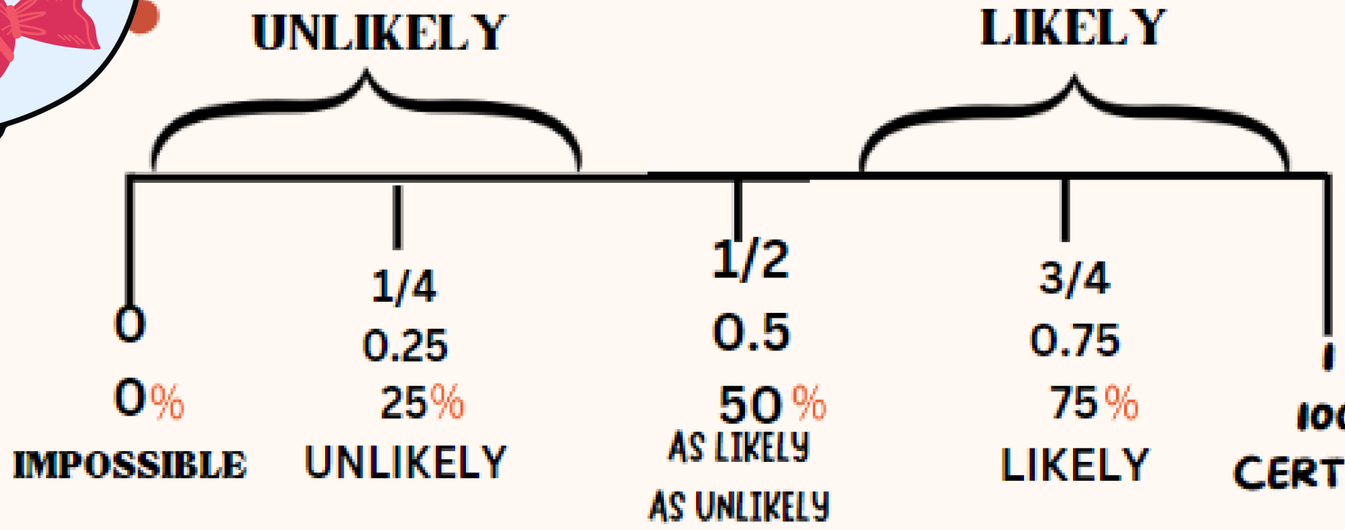
1 PINK, 2 RED, 2 BLUE

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

$$= \frac{2}{5}$$

OR 0.40 OR 40%

IT IS UNLIKELY TO PICK BLUE CANDY IN THE JAR.



SAMPLE SPACE

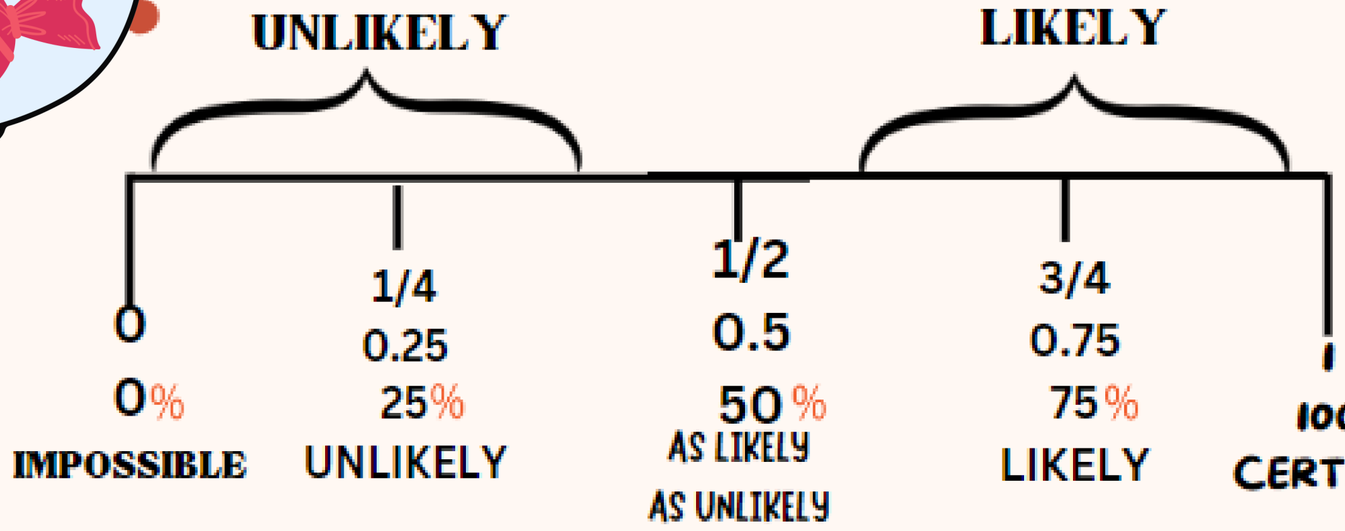
1 PINK, 2 RED, 2 BLUE

WHAT IS THE PROBABILITY OF NOT PICKING PINK CANDY IN THE JAR?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

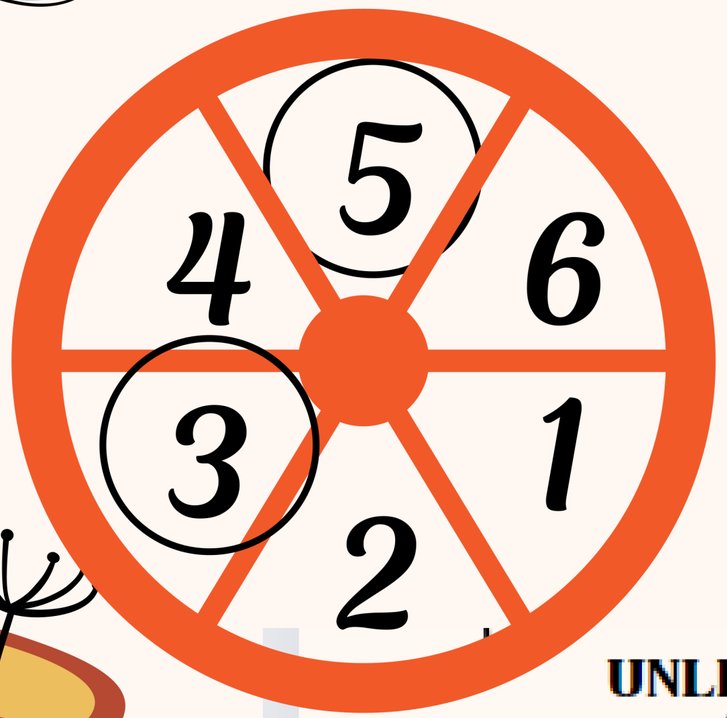
$$= \frac{4}{5}$$ OR 0.80 OR 80%

IT IS LIKELY TO PICK BLUE CANDY IN THE JAR.



SAMPLE SPACE

1,2,3,4,5,6

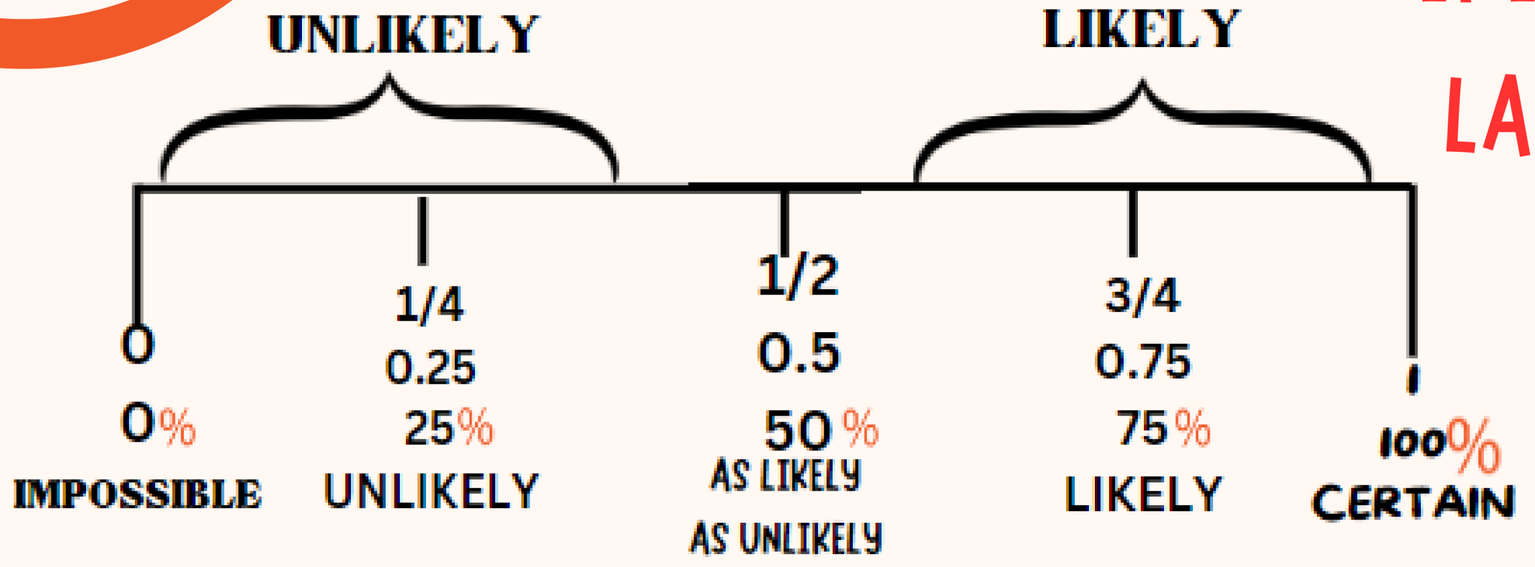


WHAT IS THE PROBABILITY OF LANDING ON 3 OR 5?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

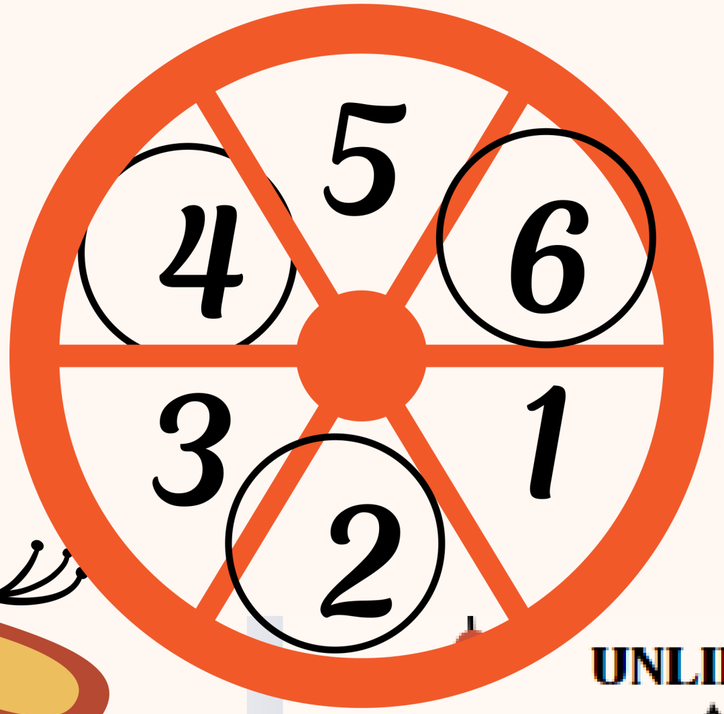
$$= \frac{2}{6} \div 2\frac{1}{3} \quad 0.33 \text{ OR } 33\%$$

IT IS UNLIKELY TO LAND ON 3 OR 5



SAMPLE SPACE

1,2,3,4,5,6

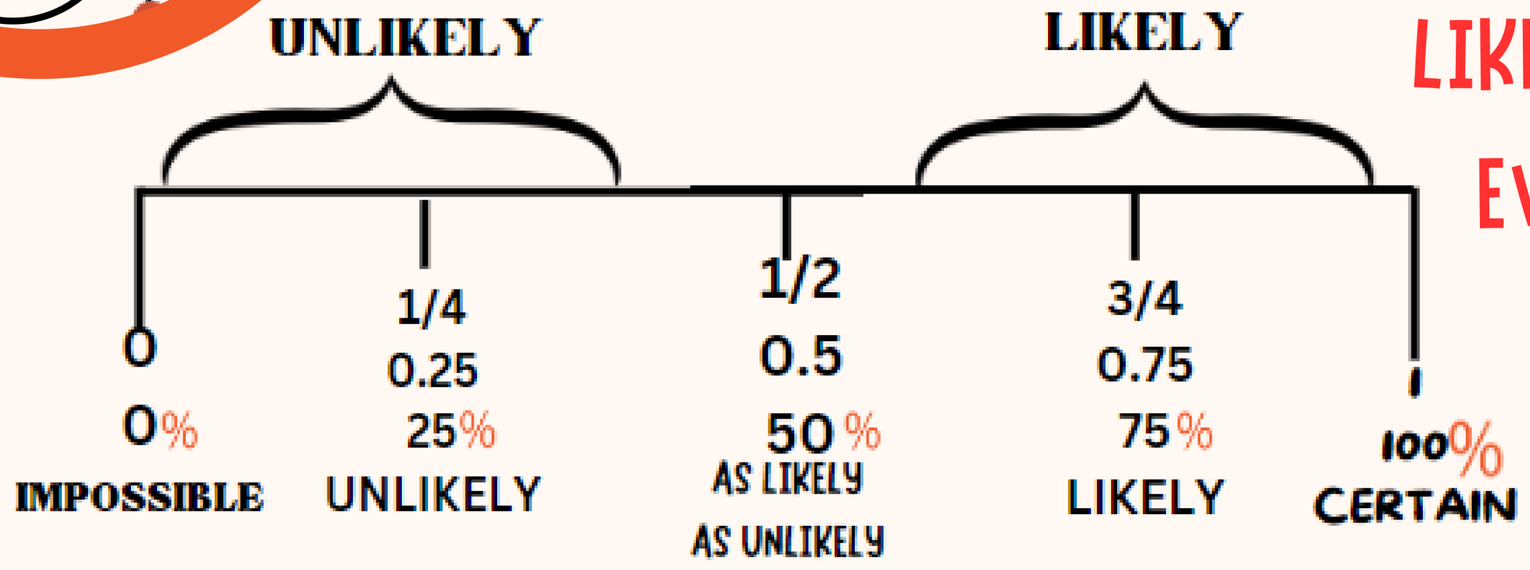


WHAT IS THE PROBABILITY OF LANDING ON EVEN NUBERS?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

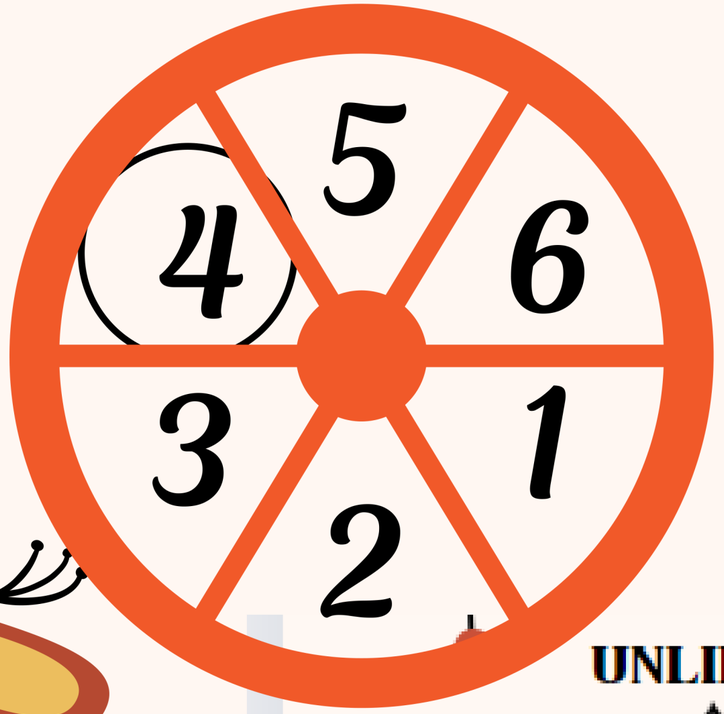
$$= \frac{3}{6} \div 3\,\frac{1}{2}\ 0.50 \text{ OR } 50\%$$

IT IS UNLIKELY OR LIKELY TO LAND ON EVEN NUMBERS.



SAMPLE SPACE

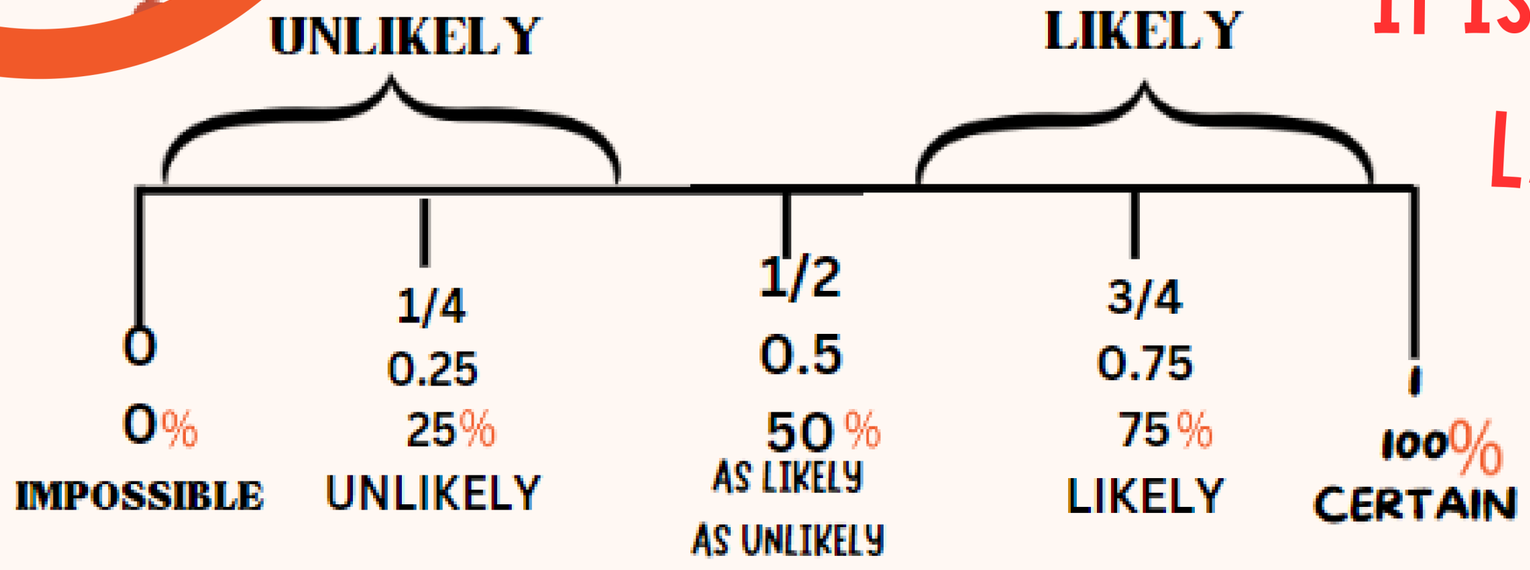
1,2,3,4,5,6



WHAT IS THE PROBABILITY OF LANDING ON 4?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

$$= \frac{1}{6} \div 3\frac{1}{2} \quad 0.166 \text{ OR } 16.67\%$$



IT IS UNLIKELY TO LAND ON 4.

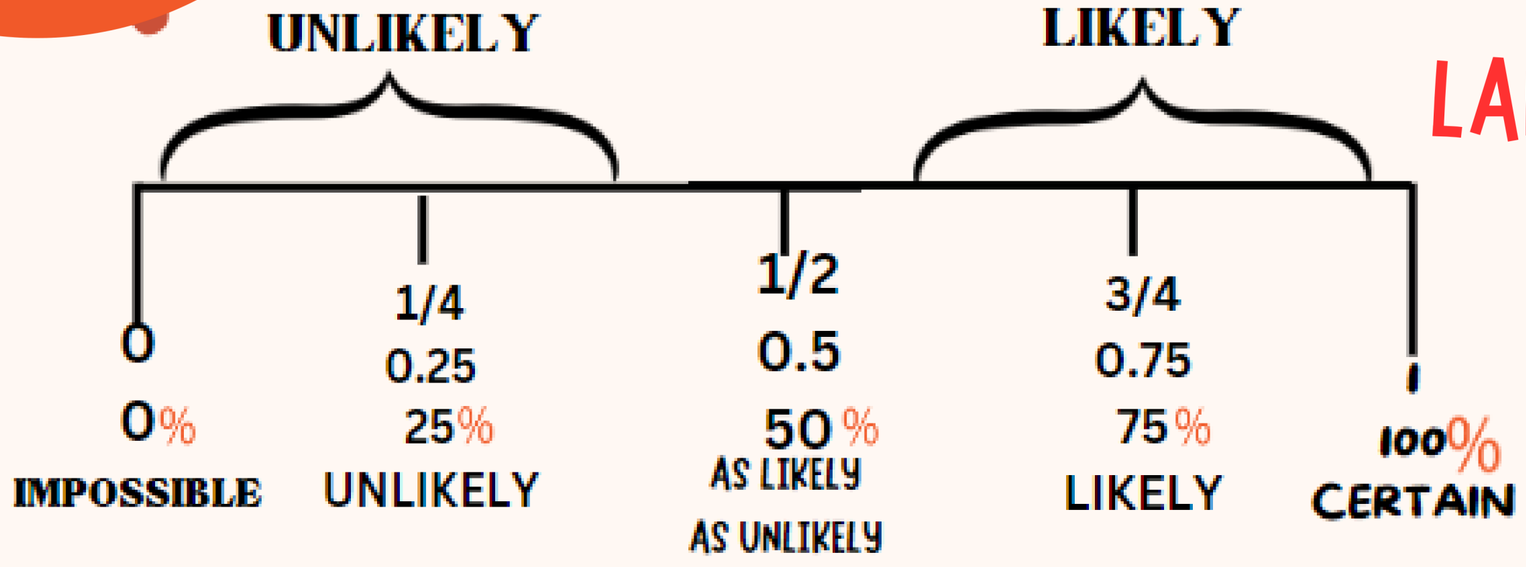
SAMPLE SPACE
1,2,3,4,5,6

WHAT IS THE PROBABILITY OF LANDING ON 7?

$$\text{PROBABILITY} = \frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$$

$$= \frac{0}{6} \quad \text{OR } 0 \quad \text{OR } 0\%$$

IT IS IMPOSSIBLE TO LAND ON 7.



SUMMARY:

PROBABILITY IS USED TO DESCRIBE HOW LIKELY OR UNLIKELY IT IS SOMETHING WILL HAPPEN.

PROBABILITY = $\frac{\text{FAVORABLE OUTCOMES}}{\text{POSSIBLE OUTCOMES}}$